

QUONSET POINT WWTF

Built during World War II's industrial boom, the Quonset Point wastewater facility is now owned and operated by the Rhode Island Economic Development Corporation. In 1992 the old treatment works were replaced by a state-of-the-art facility which uses "Rotating Biological Contactors," or "RBC's" as they are commonly known. Unlike conventional activated sludge plants, RBC's use thousands of large-surface-area plates that are rotated within the wastewater stream; they provide a home for pollution-reducing bacteria. With this upgrade, Quonset became the last major treatment facility in the state to upgrade to secondary treatment. In 1997, Quonset Point received the EPA Region 1 Operations and Maintenance Award. Staffed by seven operators and mechanics, the facility discharges into Narragansett Bay's West Passage.



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Overall Treatment: Excellent

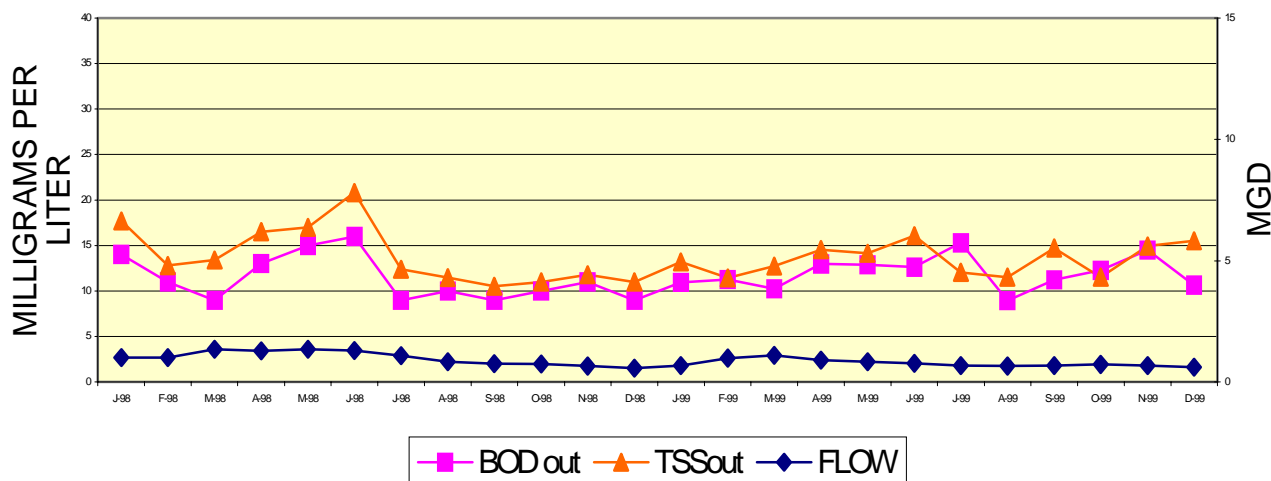
Having no monthly violations for flow, BOD, TSS or fecal coliform, Quonset Point received a rating of Excellent.



CURRENT AND FUTURE CONCERNS

RIDEM reissued the facility's discharge permit on December 30, 1999 and became effective February 1, 2000. The new permit contains revised water quality based limitations for copper, cyanide and chlorine, based on an outfall dilution study. The facility is able to comply with all water quality based limits.

QUONSET POINT EFFLUENT DATA - 1998/1999



BEGAN OPERATION 1940's

ANNUAL SURVEY

PARAMETER	1996	1997	1998	1999	PERMIT LIMIT	VIOLATIONS 1998/1999
FLOW (MGD)	1.0	0.9	1.0	0.8	1.78	0/0
BOD INFLUENT (MG/L)	126.6	115.9	118.2	141.5		
BOD EFFLUENT (MG/L)	12.2	11.5	11.3	12.0	30	0/0
BOD INFLUENT (LBS./DAY)	1040.0	839.7	976.3	885.1		
BOD EFFLUENT (LBS./DAY)	100.6	84.8	97.0	77.0		
BOD % REMOVAL	89.7	89.9	90.1	91.3		
TSS INFLUENT (MG/L)	241.5	223.3	236.3	295.7		
TSS EFFLUENT (MG/L)	16.5	13.5	13.9	13.5	30	0/0
TSS INFLUENT (LBS./DAY)	1979.4	1611.2	2001.5	1845.9		
TSS EFFLUENT (LBS./DAY)	136.6	101.1	120.1	86.7		
TSS % REMOVAL	91.9	93.7	94.0	95.3		
FECAL COLIFORM (MPN/100ML)	4.0	2.4	2.8	2.3	200.0	0/0
CHLORINE RESIDUAL (MG/L)	0.9	0.9	0.9	0.8	1.3*	0/0

*Daily Maximum Limit

Operations & Maintenance

The collection system was upgraded with the relining of 2600 linear feet of pipe. This facility has rebuilt its largest lift station. Quonset Point continues to be one of the best-operated and maintained facilities in the state.

1998 O&M Rating: 10 out of 10

1999 O&M Rating: 10 out of 10

1998 Laboratory Rating: 5 out of 5

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Overall O&M Rating: Excellent

1998 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

53 DRY TONS

1999 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

SLUDGE PRODUCED

53 DRY TONS

Sludge generated by the facility is transported in liquid form to the NETCO-operated incinerator in Woonsocket for disposal.

QUONSET POINT 1986 -1999 DATA

